

ROUTE 30
ST. LOUIS CO.
PIPE EXTENSION



IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NOT TO SCALE

EXHIBIT A

Miscellaneous Contract Requirements and Specification

A. Work Location

Route 30 (Gravois Road) South side of Roadway, West of Grant Road and McNary Drive
St Louis County
Work Location is shown in Exhibit A of the contract documents

B. Work Description

The purpose of this work is to extend an existing pipe under Route 30. This work consists of locating and excavating to the end of the existing culvert pipe that has been filled over and extend it with a Group B Pipe and flared end section, backfill, and add a rock lining. The existing pipe shall be free of debris. The size of the pipe shall be verified in the field before ordering supplies. Contractor shall not disturb any utilities. All sidewalk replaced by the contractor must be constructed with a 0.05 % to 1.5% +/- .05% cross slope. The contractor is limited to removing four sections of sidewalk at the project location unless otherwise determined by the Commission's representative. Construction survey will be completed by MoDOT forces. All work shall be completed as shown in Exhibit C (Plan Drawing) and Exhibit D (Culvert Section), or as directed by the Commission's representative.

C. Tabulation of Quantities

Sawcut	10	Linear Feet
Class 3 Excavation	294.4	Cubic Yards
18" Group B Pipe	52	Linear Feet
18" Pipe Collar Group B	1	Each
18" Flared End Section Group B	1	Each
4" Sidewalk	11.1	Square Yards
Turf Type Tall Fescue Sodding	53.3	Square Yards
Type 1 Rock Lining	2	Cubic Yards
Traffic Control	1	Lump Sum
Mobilization	1	Lump Sum

D. Traffic Control

All traffic control will be provided by the Contractor. Standard MUTCD compliant signs, channelizers, arrow boards, truck mounted attenuators, etc. will be used. At least one through traffic lane on westbound Route 30 shall be open at all times to maintain traffic flow. The right lane of Rte. 30 westbound shall be closed only when required. Traffic Control will be paid for by One Lump Sum.

E. Working Hours

Monday through Friday days allowed 8:30 AM to 2:00 PM, and nighttime hours allowed from 6:00 PM to 6:00 AM. Weekend and holiday work hours require prior approval from the Commission's representative and may not be allowed.

F. Completion Date and Working Days

1.0 Description. Completion of the work will be administered on both a calendar date completion basis and on a working days completion basis.

1.1 Regardless of when the contractor begins the work, all work shall be completed on or before the calendar date of October 22, 2010.

1.2 Regardless of when the contractor begins the work, all work shall be completed within 10 working days.

2.0 Administration of Calendar Completion Date and Working Days Completion.

2.1 Calendar Day A calendar day will be defined as any day of the year including holidays, Saturdays, and Sundays.

2.1.1 The contractor will not be entitled to any extension of calendar days because of unsuitable weather conditions or the effects of weather conditions unless authorized in writing by the Commission's representative. Calendar days allowed for the performance of the work may be extended for delays caused by acts of God, acts of the public enemy, fires, floods, earthquakes, epidemics, quarantine restrictions, strikes, freight embargoes, unusually severe weather, or other delays not caused by the contractor's fault or negligence. An extension of the calendar completion date will only be granted to the contractor provided documentation has been given to the Commission's representative.

2.2 Working Day. A working day will be defined as any day when, in the judgment of the Commission's representative, weather conditions would permit the major operation of the project for five hours or more, unless other unavoidable conditions prevent the contractor's operations. If conditions require the contractor to stop work in less than five hours, the day will not be counted as a working day. Saturdays, Sundays, and holidays established by law will not be counted as working days.

2.2.1 The count of working days will start on the date the contractor starts construction operations. The Commission's representative will determine when a working day is to be charged. The Commission's representative may make allowance for working days lost due to causes justifying their elimination from the count of working days. No allowance will be made for delay or suspension of the work due to fault of the contractor.

G. Liquidated Damages for Failure to Complete Work on Time

1.0 If the contractor fails to complete the work by the calendar date, or working days specified in Section F above, then liquidated damages in the amount of **\$250.00** per day will apply. Days that the Department has suspended the contractor's work will not be assessed liquidated damages.

H. Utilities

1.0 For informational purposes only, the following is a list of names, addresses, and telephone numbers of the known utility companies in the area of the construction work for this improvement:

<u>Utility Name</u>	<u>Known Required Adjustment</u>
Mr. Brian Langenbacher Laclede Gas Company 3950 Forest Park Ave St Louis, MO 63108 Telephone: 314-658-5401	See Below
Mr. Francis Kaiser Metropolitan St. Louis Sewer District 2350 Market Street St. Louis, Missouri 6310 Telephone: 314-768-6204	None
Mr. Bruce Larson AmerenUE 9823 McKenzie Road St. Louis, MO 63123 Telephone: 314-992-9720	None
Tom Kelley ATT Distribution-Formerly SBC 164 Crestwood Plaza Crestwood, MO 63126 Telephone: (636) 949-1313	None
Dave Pruitt Missouri American Water Company 727 Craig Road St. Louis, MO 63141 Telephone: (314) 996-2217	None
Cory Birk Charter Communications 941 Charter Commons Town and Country, MO 63017 Telephone: (314) 568-5237	None
Carl Atteberry Paetec 102 E Shafer St. Forsyth, IL 62535 Telephone: 217-519-0464	None

Michael Perkins
Sprint Communications
307 Richard Dr
Washington, MO 63090
Telephone: 636-421-0848

None

1.1 The existence and approximate location of utility facilities known to exist, as shown on the plans, are based upon the best information available to the Commission at this time. This information is provided by the Commission "as-is" and the Commission expressly disclaims any representation or warranty as to the completeness, accuracy, or suitability of the information for any use. Reliance upon this information is done at the risk and peril of the user, and the Commission shall not be liable for any damages that may arise from any error in the information. It is, therefore, the responsibility of the contractor to verify the above listing information indicating existence, location and status of any facility. Such verification includes direct contact with the listed utilities.

1.2 The contractor agrees that any effects of the presence of the utilities, their relocation, contractor's coordination of work with the utilities and any delay in utility relocation shall not be compensable as a suspension of work, extra work, a change in the work, as a differing site condition or otherwise including but, without limitation, delay, impact, incidental or consequential damages. The contractor's sole remedy for the effects of the presence of utilities, delay in their relocation or any other effects shall be an excusable delay as provided in Section 105.7.3. The contractor waives, for itself, its subcontractors and suppliers the compensability of the presence of utilities, delay in their relocation and any cost to the contractor, its subcontractors and suppliers in any claim or action arising out of or in relation to the work under the contract.

1.3 The contractor shall be solely responsible and liable for incidental and consequential damage to any utility facilities or interruption of the service caused by it or its subcontractors operation. The contractor shall hold and save harmless the Commission from damages to any utility facilities interruption of service by it or its subcontractor's operation.

2.0 Laclede Gas - Laclede gas has facilities in close proximity to the excavation required for this project. Jim Young of Laclede gas shall be contacted at 314-575-4620, 1 week prior to excavation within 5 feet of the existing Laclede facility so that Laclede can have someone present during excavation in proximity to their facility.

3.0 It shall be noted by the contractor that MoDOT is a member of Missouri One Call (800 Dig Rite). Some work on this project may be in the vicinity of MoDOT utility facilities, which includes but is not limited to traffic signal cables, highway lighting circuits, ITS cables, cathodic protection cables, etc. Prior to beginning work, the contractor shall request locates from Missouri One Call. The contractor shall also complete the Notice of Intent to Perform Work form located at the Missouri Department of Transportation website:

<http://www.modot.mo.gov/asp/intentToWork.shtml>

The contractor shall submit the form over the web (preferred method) or by fax to the numbers on the printed form. The notice must be submitted a minimum of 2 and a maximum of 10 working days prior to excavation just as Missouri One Call requires.

I. Standard Specifications and Standard Plans

All items and materials used for this contract shall be in accordance with the applicable portions of the Missouri Standard Specifications For Highway Construction, and Missouri Standard Plans for Highway Construction available on the Missouri Department of Transportation web page at www.modot.mo.gov under "Business With MoDOT" "Standards and Specifications". The effective version shall be determined by the letting date of the project. The specific Standards are listed below.

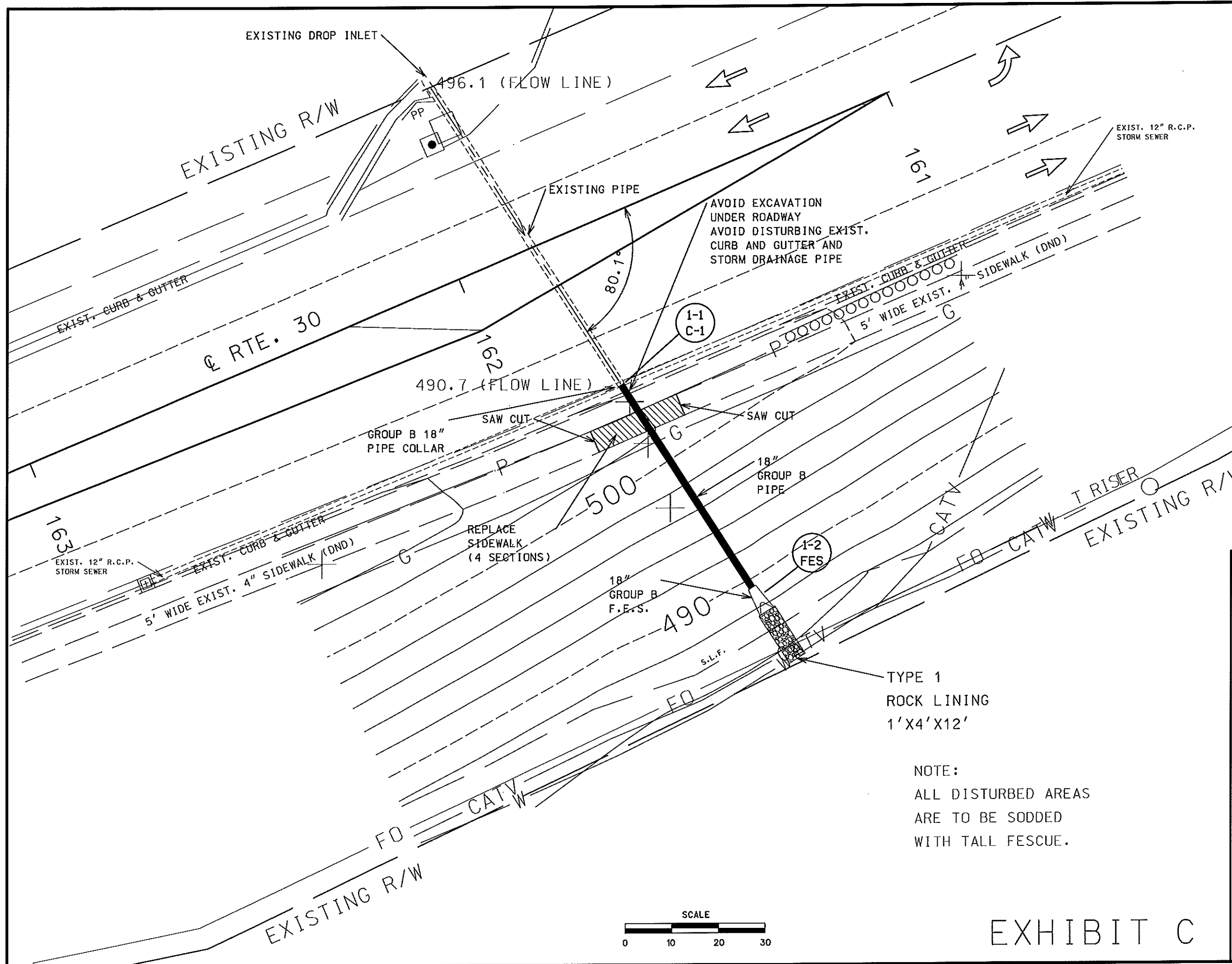
1.0 Standard Specifications

Section 206	Excavation for Structures
Section 501	Concrete
Section 604	Miscellaneous Drainage
Section 608	Concrete Median, Median Strip, Sidewalk, Curb Ramps, and Paved Approaches
Section 609	Paved Drainage
Section 611	Embankment Protection
Section 726	Rigid Pipe Culverts
Section 803	Sodding

2.0 Standard Plans

203.00E	Excavation & Embankment
604.40F	Pipe Collars
608.10M	Concrete Sidewalk and Curb Ramps
609.70C	Rock Lining for Culvert Outlet
616.10AJ	Temporary Traffic Control devices
725.00B	Corrugated Metal Pipe Installation Methods
726.30F	Culvert Installation Methods
730.00C	Corrugated Polyethylene and Polyvinyl Chloride Pipe Installation Methods
732.00N	Flared End Section
903.01H	Special Signing Characters

ROUTE 30
ST. LOUIS CO.
PIPE EXTENSION



CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES (DND)		
FIBER OPTICS		
OVERHEAD TELEPHONE		
UNDERGROUND TELEPHONE		
OVERHEAD POWER		
UNDERGROUND POWER		
GAS		
WATER		
MANHOLE		
FIRE HYDRANT		
WATER VALVE		
WATER METER		
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN		
LIGHT POLE		
PULL BOX		
TELEPHONE PEDESTAL		
FENCE		
CHAIN LINK		
WOVEN WIRE		
GATE POST		
BENCHMARK		

NOTE: DASHED OR OPEN SYMBOLS INDICATE
EXISTING FEATURES

EXHIBIT C

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NOTE:					
CROSS SECTION IS TAKEN AT A 9.9° SKEW					
UTILITIES ARE LOCATED BY SURVEY					
FIBER OPTIC WAS NOT LOCATED BY SURVEY					



TRAFFIC CONTROL DEVICES

RTE. 30
ST. LOUIS CO.
PIPE EXTENSION



W021-4
2



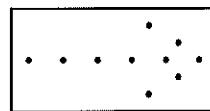
W020-5
5



W020-6a
6



W021-5b
21



FLASHING ARROW PANEL
LOCATE AT BEGINNING
OF TAPER WHEN FEASIBLE

GENERAL NOTES:

1. SEE STANDARD PLAN 616.10 FOR DETAILS AND ITEMS NOT SHOWN
2. EXISTING SIGNS SHALL BE COVERED DURING WORKING HOURS ONLY IF IN CONFLICT WITH TRAFFIC CONTROL PLANS.
3. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING OR REMOVING SIGNS.
4. LOCATE FLASHING ARROW PANEL AT BEGINNING OF TAPER WHEN FEASIBLE. ARROW PANELS ARE ALWAYS LOCATED BEHIND CHANNELIZERS.

TRAFFIC CONTROL LEGEND

- SIGN
○ CHANNELIZER, TRIM LINE OR DRUM-LIKE
△ DIRECTIONAL INDICATOR BARRICADES (DIBS)

Sign Spacing, Device Spacing and Channelizing Taper Lengths

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED (1) MPH	MINIMUM TAPER LENGTHS (L) FOR LANE WIDTHS (W)			MAXIMUM CHANNELIZER SPACING	
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA
	40-45	450	495	540	40 100

BUFFER SPACE	
SPEED (1) MPH	BUFFER SPACE
40-45	220

SIGN SPACING FOR ADVANCE SIGN SERIES (1) (2)		
SPEED (1) MPH	NON-DIVIDED HIGHWAYS (FT)	
	DIVIDED HIGHWAYS (FT)	
40-45	350	500

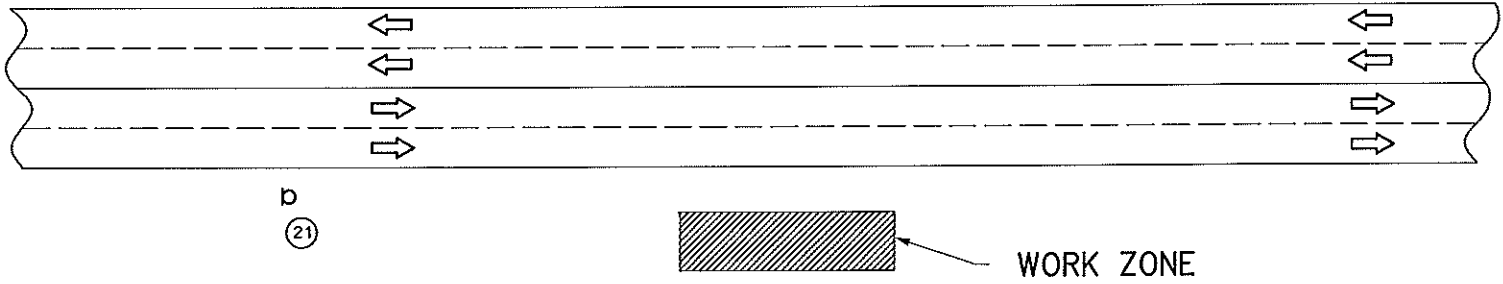
TAPER LENGTH (L)
L = WS FOR 45 MPH OR MORE
L = $\frac{WS^2}{60}$ FOR 40 MPH OR LESS
L = TAPER LENGTH IN FEET
W = LATERAL SHIFT IN FEET
S = POSTED SPEED IN MPH

NOTES:

DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

- (1) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION
- (2) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS
- (3) TAPER LENGTHS SHOWN INCLUDE LENGTH REQUIRED FOR LANE AND 10' SHOULDER.

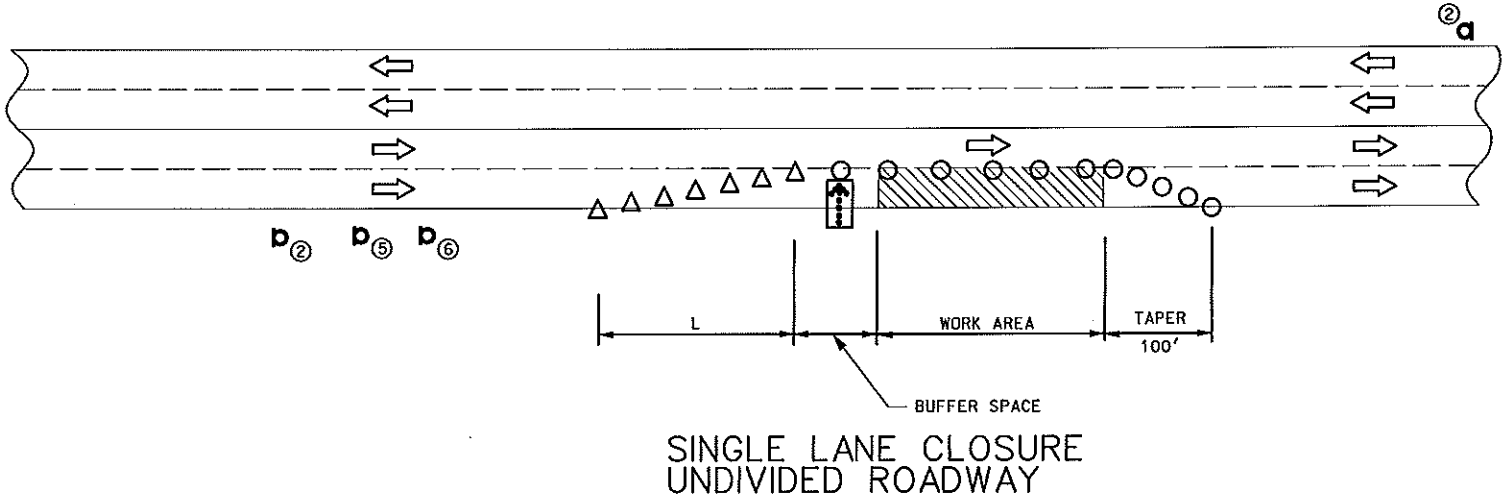
EXHIBIT E



WORK BEYOND RIGHT SHOULDER - UNDIVIDED OR DIVIDED ROADWAYS

USED FOR WORK THAT OCCURS OFF THE ROADWAY SHOULDER BUT WITHIN THE CLEAR ZONE.
NOT TO BE USED WHEN WORK VEHICLES ARE PARKED ALONG THE SHOULDER EVEN WHEN
THE WORK IS BEING PERFORMED OFF THE SHOULDER.

CONSTRUCTION SIGNS
1 EACH SHOULDER WORK AHEAD



CONSTRUCTION SIGNS
2 EACH ROAD WORK AHEAD
1 EACH RIGHT (LEFT) LANE CLOSED AHEAD
1 EACH RIGHT (LEFT) LANE CLOSED
1 EACH FLASHING ARROW PANEL